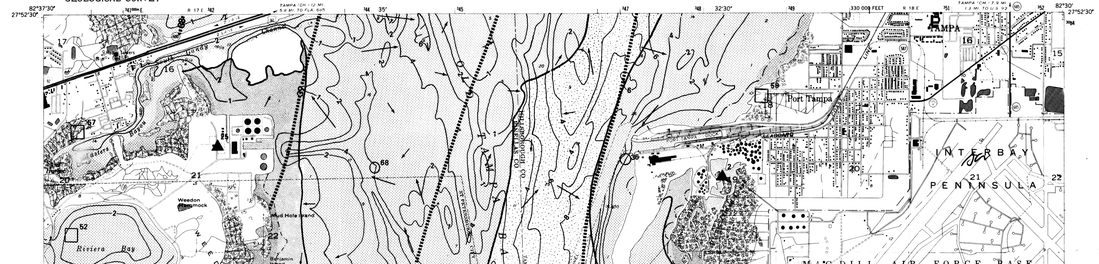
I 49.89/2:85(15)map B11

ORIGINAL

I49.89/2:85(15)map B11

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PORT TAMPA QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)

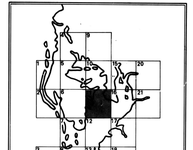


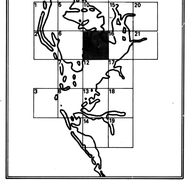
MAP B11

TAMPA BAY ENVIRONMENTAL ATLAS

WATER RESOURCES

PORT TAMPA





Scale 1:24,000

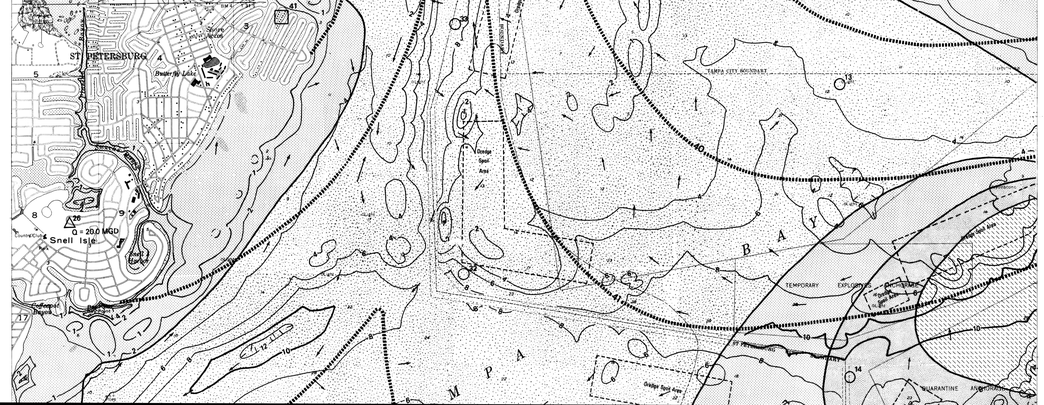
1984

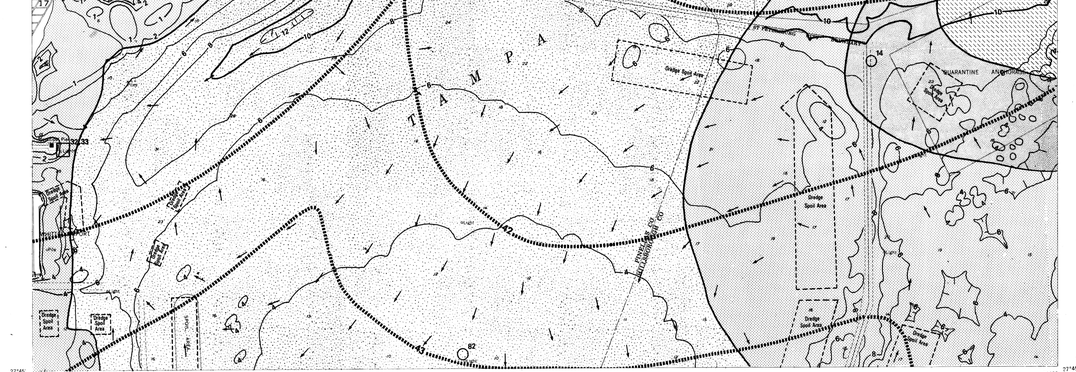
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

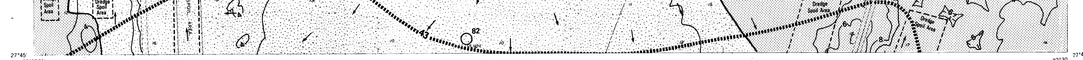
Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17, Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.


ST. PETERSBURG
Snell Isle
Q = 20.0 MGD
TAMPA CITY BOUNDARY
TEMPORARY EXPLOSIVES ANCHORAGE
QUARANTINE ANCHORAGE
Dredge Spoil Area
Dredge Spoil Area
Dredge Spoil Area


TAMPA
Dredge Spoil Area
QUARANTINE ANCHORAGE
Dredge Spoil Area
Dredge Spoil Area
Dredge Spoil Area



THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE'S COASTAL ECOSYSTEMS PROGRAM AND THE TAMPA BAY ECOSYSTEMS TEAM (TAFS,CDBG) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGIC DIVERSITY. THE STUDY AREA INCLUDES THE ENTIRE TAMPA BAY ESTUARY, THE LOWER REACHES OF THE ALAFIA AND MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY AGENCY OR GROUP. THE STUDY WAS DESIGNED TO ESTABLISH THE GEOGRAPHICAL FRAMEWORK OF THE REGULATORY PROGRAMS OF PARTICIPATING AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERAL LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1978 - August 1983 Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS Dredge and Spoil easement location maps. Florida Dept. of Natural Resources

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service. Rockville, Md. 1981

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality stations, Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map to St. Petersburg Quadrangle. N.O.S. 1978

INTERTIDAL ZONE: Nautical Chart #'s 11410, 11413, 11414 and 11420. U.S.S., Rockville Md. 1983

SEDIMENTS: Sediments, oceanographic observations and Floridan data for Tampa Bay, Florida and adjacent waters, 1961-1966. Taylor and Saloman, 1969

TIDAL CURRENTS: Changes in tidal flow, circulation and flushing characteristics of Tampa Bay, Florida. U.S. Geological Survey Open File Report #84-847. Goodwin, 1984.

FRESHWATER/SALTWATER INTERFACE: Position of the freshwater/saltwater interface in the upper part of the Floridan aquifer. Southwest Florida, 1970. U.S.G.S. water resources open file report 82-90. Causseaux and Fretwell, 1982.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE

Selected areas on this U.S.G.S. base map updated using information extracted from aerial photography. This information not field checked.

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

KILOMETER

Supplemental Legend (Cont'd)

Station #33 Lat. 27°48'14" Long. 82°34'15"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	27.9	22.6	28.9	18.3	27.5
Conductivity (mmhos)	41600	39800	40017	42400	40800
Turbidity (JTU'S)	4.6	3.2	3.8	2.9	3.4
Temperature (°C)	21.8	30.1	24.9	15.3	23.0
Total Nitrogen (mg/l)	0.62	0.73	0.68	0.55	0.66

Station #35 Lat. 27°51'30" Long. 82°32'13"

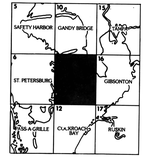
PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	27.5	22.0	28.6	17.9	27.1
Conductivity (mmhos)	41600	40000	39900	42100	40500
Turbidity (JTU'S)	4.6	4.1	3.8	2.9	3.4
Temperature (°C)	21.7	29.1	24.8	15.5	22.9
Total Nitrogen (mg/l)	0.63	0.71	0.68	0.48	0.66

Station #50 Lat. 27°51'32" Long. 82°35'05"

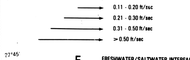
PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	28.1	20.8	34.0	19.7	29.2
Conductivity (mmhos)	40523	39012	39303	41301	39913
Turbidity (JTU'S)	4.2	4.1	4.0	2.9	3.8
Temperature (°C)	21.5	29.3	24.9	15.0	22.9
Total Nitrogen (mg/l)	0.71	0.71	0.68	0.61	0.70

Station #52 Lat. 27°45'03" Long. 82°34'20"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	29.4	22.2	35.6	19.8	29.4
Conductivity (mmhos)	42300	41700	39567	42197	42402
Turbidity (JTU'S)	4.5	5.5	4.6	3.1	4.4
Temperature (°C)	22.6	29.7	25.3	16.5	23.8
Total Nitrogen (mg/l)	0.66	0.70	0.64	0.48	0.64



Note: Specific conductivity values on the supplemental legend should be in µmhos.


0.11 - 0.20 ft/sec
0.21 - 0.30 ft/sec
0.31 - 0.50 ft/sec
>-0.50 ft/sec
F
S
FRESHWATER/SALTWATER INTERFACE
(U.S. Geological Survey 1970)
250 mg/l line of equal chloride concentration in the upper part of Floridan aquifer.

Symbols appearing with numbers are described more fully in the narrative

Supplemental Legend for Water Quality Stations on This Map

Station #13 Lat. 27°46'45" Long. 82°37'25"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	27.9	22.3	28.9	18.1	28.0
Conductivity (mmhos)	41250	40702	39100	39373	39283
Turbidity (JTU'S)	4.6	4.1	3.8	2.9	3.4
Temperature (°C)	21.9	29.3	24.9	15.6	22.9
Total Nitrogen (mg/l)	0.71	1.67	0.68	0.56	0.76

Station #14 Lat. 27°46'55" Long. 82°33'25"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	31.3	22.2	34.9	20.2	31.2
Conductivity (mmhos)	43767	43317	39900	43533	42304
Turbidity (JTU'S)	4.6	5.6	4.6	3.2	4.5
Temperature (°C)	22.1	29.2	25.7	16.6	23.4
Total Nitrogen (mg/l)	0.63	0.73	0.65	0.50	0.66

Station #32 Lat. 27°47'34" Long. 82°34'15"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	29.2	22.5	27.5	19.0	28.2
Conductivity (mmhos)	41950	39533	39400	44000	41031
Turbidity (JTU'S)	4.1	4.0	3.8	2.7	3.6
Temperature (°C)	21.9	29.0	24.9	15.5	22.9
Total Nitrogen (mg/l)	0.67	0.70	0.69	0.54	0.15

MICROFILMED FROM BEST AVAILABLE COPY

1.0
1.1
1.25
1.4
1.6

1.0
1.1
1.25
1.4
1.6